AMENDMENTS TO THE CLAIMS

1-33. **(CANCELED)**

34. **(CURRENTLY AMENDED)** A lithographic ink for use in a lithographic printing process onto a polymer substrate, the ink comprising a metal or carbon particulate material suspended in a mixture of a resin, an antioxidant, and an organic solvent, wherein:

a. the resin comprises a polyamide, and

b. the metal or carbon particulate material constitutes 50%-90% of the weight of the ink.

35. **(CANCELED)**

36. **(CURRENTLY AMENDED)** The lithographic ink of claim 34 wherein the ink is printed on ~~a substrate~~ the substrate with at least one electrically conducting layer situated thereon.

37. **(CURRENTLY AMENDED)** The lithographic ink of claim 34 wherein the ink is printed on ~~a substrate~~ the substrate with at least two or more stacked electrically conducting layers situated thereon.

38. **(CURRENTLY AMENDED)** The lithographic ink of claim 34 wherein the ink is printed on ~~a substrate~~ the substrate with a first electrically conducting layer deposited thereon by electroless deposition.

39. **(PREVIOUSLY PRESENTED)** The lithographic ink of claim 38 wherein an electrical component is attached to the first electrically conducting layer by means of a conductive polymer adhesive.

40. **(PREVIOUSLY PRESENTED)** The lithographic ink of claim 38 wherein a second electrically conducting layer is electroplated atop the first electrically conducting layer.

41. **(PREVIOUSLY PRESENTED)** The lithographic ink of claim 40 wherein an electrical component is attached to the first or second electrically conducting layer by a conductive polymer adhesive.

42. **(CURRENTLY AMENDED)** The lithographic ink of claim 34 wherein ~~**the ink is printed on a flexible polymer sheet**~~ **the substrate whereupon the ink is printed is a flexible polymer sheet**.

43. **(CURRENTLY AMENDED)** The lithographic ink of claim 34 wherein:

a. the ink is printed on ~~**a substrate**~~ **the substrate**, with the ink having a thickness of less than about 5 microns;

b. a first electrically conducting layer is situated atop the ink, with the electrically conducting layer having a thickness of less than about 4 microns.

44. **(PREVIOUSLY PRESENTED)** The lithographic ink of claim 43 wherein the substrate is a flexible polymer sheet.

45. **(PREVIOUSLY PRESENTED)** The lithographic ink of claim 44 wherein an electrical component is attached to the first electrically conducting layer by means of a conductive polymer adhesive.

46-49. **(CANCELED)**

50. **(CURRENTLY AMENDED)** A lithographic ink for use in a lithographic printing process, the ink comprising:

a. a particulate material which constitutes 50%-90% of the weight of the ink, the particulate material including ~~at least one of metal and carbon~~ metal or carbon; and

b. a mixture wherein the particulate material is suspended, the mixture including:

(1) a polyamide resin,

(2) an antioxidant, and

(3) an organic solvent;

~~wherein the mixture is at least substantially free of water~~.

51-54. **(CANCELED)**